BRUHAT BANGALORE MAHANAGARA PALIKE

Asst. Executive Engineer
Shettyhalli Sub Division

Name of Work:- Improvements to Roads and Drains At Ravindra Nagara Surrounding Area In Ward No.13 Shettyhalli Sub Division.

Est Cost: 84.00 Lakhs

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Report Accompanying The Estimate

(32)

Name Of Work :Improvements To Roads And drains At Ravindra Nagara Surrounding Area In Ward No-13 Shettyhalli Sub Division.

ಬಿ.ಬಿ.ಎಂ.ಪಿ ವ್ಯಾಪ್ತಿಯ ವಾರ್ಡ್ ನಂ–13 ರಲ್ಲಿ ಮಲ್ಲಸಂದ್ರ ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ರವೀಂದ್ರ ನಗರ ಪ್ರದೇಶದಲ್ಲಿ. ಎಸ್.ಸಿ/ಎಸ್.ಟಿ ವರ್ಗದವರು ಬಡವರು ಹಾಗೂ ಇತರೆ ವರ್ಗದವರು ಹೆಚ್ಚಾಗಿ ವಾಸಿಸುತ್ತಿರುತ್ತಾರೆ. ಹಾಗೂ ಇಲ್ಲಿನ ಇಲ್ಲಿನ ರಸ್ತೆಗಳಲ್ಲಿ ಬಿ.ಡಬ್ಲ್ಯೂ,ಎಸ್,ಎಸ್,ಬಿಯವರು ನೀರಿನ ಪೈಪ್ ಲೈನ್ ಮತ್ತು ಒಳಚರಂಡಿ ದುರಸ್ಥಿಗಾಗಿ ರಸ್ತೆಗಳನ್ನು ಹಗೆದಿರುತ್ತಾರೆ. ಆದ್ದರಿಂದ ದುರಸ್ಥಿಗೊಂಡಿರುವ ರಸ್ತೆಗಳನ್ನು ಸರಿಪಡಿಸಬೇಕಾಗಿದ್ದು. 2019–20ನೇ ಸಾಲಿನ ಬಿಬಿಎಂಪಿ ಆಯವ್ಯಯದಲ್ಲಿ **ಪಿ–ಕೋಡ್ ಸಂಖ್ಯೆ : 1878** ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ ಪಿ.ಕೋಡ್–1878ರ ಎಸ್.ಸಿ/ಎಸ್.ಟಿ ವರ್ಗದವರಿಗೆ ಸಾಮೂಹಿಕ ಕಾರ್ಯಕ್ರಮಗಳ ಕಲ್ಯಾಣ ಕಾರ್ಯಕ್ರಮಗಳ ಅನುದಾನದಡಿಯಲ್ಲಿ ಮಲಸಂದ್ರ ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಎಸ್.ಸಿ/ಎಸ್.ಟಿ ಜನರು ವಾಸಿಸುವ ಪ್ರದೇಶಗಳ ಅಭಿವೃದ್ಧಿಗೆ ರೂ.400.00 ಲಕ್ಷಗಳ ಅನುದಾನ ಲಬ್ಯವಿದ್ದು. ಅದರಲ್ಲಿ ರೂ.84.00ಲಕ್ಷಗಳ ಅನುದಾನವನ್ನು ಸದರಿ ಪ್ರದೇಶದ ಅಭಿವೃದ್ಧಿಗೆ ಮೀಸಲಿರಿಸಲಾಗಿರುತ್ತದೆ.

ಸದರಿ ಅನುದಾನಕ್ಕೆ 2019–20ನೇ ಸಾಲಿನ ಲೋಕೊಪಯೋಗಿ ಇಲಾಖೆಯ ದರಪಟ್ಟಿ ಮತ್ತು ಮಾರುಕಟ್ಟೆ ದರಗಳ ಅನುಸಾರ ಈ ಕೆಳಕಂಡ ಅಂಶಗಳೊಂದಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ರೂ.84.00ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಲಾಗಿದೆ.

1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving
2. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm
3. Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix
4. Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking,
5. Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 25cm
6. Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 25cm thick
7. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface
8. Etc

ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮತ್ತು ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ–13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪ–ವಿಭಾಗ

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BRUHATH BENGALORE MAHANAGARA PALIKE DASARAHALLI ZONE

Name of work: Improvements to Roads and Drains At Ravindra Nagara Surrounding Area In Ward No.13 Shettyhalli Sub Division.

Est .Cost Rs 84.00 Lakhs

Sl. No		Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate In Rs.	Amount in Rs.
1	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 142/ Item No. 19.1/ PWD SR 2018-19)**								
	For RCC Drain								
	6th B Cross Ravindra Nagara		1	55.00	1.10	1.00	60.50		
	For Culvert								
	4th Cross Ravindra Nagara		1	5.00	1.80	1.10	9.90		
	6th Cross Ravindra Nagara		1	5.00	1.80	1.10	9.90		
	CC Road								
	Cross Road		1	12.20	2.20	0.30	8.05		
	Air Force Compound Road		1	530.00	5.30	0.30	842.70		
	8th cross Ravindra Nagara		1	50.00	4.80	0.30	72.00		
	Asphalt Road								
	7th Cross Ravindra Nagara		2	256.00	0.50	0.30	76.80	137.20	148803.33
		Cum					1079.85	207.60	224177.28
	Basic Rate	130.00							
	Loading and unloading charges	~~57.00~~							
	lead for earth 5 km	~~12.80~~							
	Area Weightage 6%	~~7.80~~							
	Grand Total	207.60	137.20						
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 pwd 2018-19)**								
	For RCC Drain								
	6th B Cross Ravindra Nagara		1	55.00	1.10	0.15	9.08		
	For Culvert								
	4th Cross Ravindra Nagara		1	5.00	1.80	0.15	1.35		
	6th Cross Ravindra Nagara		1	5.00	1.80	0.15	1.35		
	CC Road								
	Cross Road		1	12.20	2.20	0.15	4.03		
	Air Force Compound Road		1	530.00	5.30	0.15	421.35		
	8th cross Ravindra Nagara		1	50.00	4.70	0.15	35.25		
	Asphalt Road								
	7th Cross Ravindra Nagara		2	256.00	0.50	0.15	38.40		
		Cum					510.80	5509.33	2814166.58
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
	Sub Total	**5197.48**							
	Area Weightage 6%	311.85							
	Grand Total	**5509.33**							
3	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 pwd 2018-19)								
	For RCC Drain								
	For Bottom Raft								
	6th B Cross Ravindra Nagara		1	55.00	0.90	0.15	7.43		
	For Culvert								

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Sl. No		Unit	No	Dimension			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
	4th Cross Ravindra Nagara		1	5.00	1.50	0.15	1.13		
	6th Cross Ravindra Nagara		1	5.00	1.50	0.15	1.13		
	For Wall								
	6th B Cross Ravindra Nagara		2	55.00	0.15	0.75	12.38		
	For Culvert								
	4th Cross		2	5.00	0.23	0.90	2.07		
	6th Cross		2	5.00	0.23	0.90	2.07		
		Cum					**26.19**	**7189.42**	**188290.86**
	Basic Rate	6670.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*490.63/100)=1471.89						
	Add Cement cost as per Issue rate	1584.36	Note:- (300*264.06/50)=1584.36						
	Sub Total	6782.47							
	Area Weightage 6%	406.95							
	Grand Total	**7189.42**							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 (I No-28.8.2.P No-229 PWD SR 2018-19)								
	Consider 65kg/Cum for drain		1	19.80	65.00		1287.00		
	Consider 90kg/Cum for Culvert		1	6.39	90.00		575.10		
		Tonne					**1.86**	**72326.98**	**134680.07**
	Basic Rate	68233.00							
	Area Weightage 6%	4093.98							
	Grand Total	**72326.98**							
5	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. **(Data Rate)**								
	Covering Slab For drain								
	6th B Cross Ravindra Nagara		1	55.00	0.90		49.50		
		Sqm					**49.50**	**2337.00**	**115681.50**
	Data Rate	**2337.00**							
6	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 25cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. **(Data Rate)**								
	For Culvert								
	4th Cross		1	5.00	1.50		7.50		
	6th Cross		1	5.00	1.50		7.50		
		Sqm					15.00	5418.00	81270.00
	Data Rate	**5418.00**							
7	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **(Page No. 146/ Item No.19.55/ PWD SR 2018-19)**								
	For CC Road								
	Cross Road Mathrushree Layout		1	12.20	2.20		26.84		
	Air Force Compound Road		1	530.00	5.30		2809.00		
	8th cross Ravindra Nagara		1	50.00	4.70		235.00		
	Asphalt Road								
	7th Cross Ravindra Nagara		2	256.00	0.50		256.00		
		Sqm					3326.84	95.40	317380.54
	Basic Rate	90.00							
	Area Weightage 6%	5.40							
	Grand Total	**95.40**							
8	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix **M20/M30** , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - **M20 (at 320Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)**								
	For CC Road								

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Sl. No		Unit	No	Dimension			Quantity	Rate	Amount
				L	B	D		In Rs.	in Rs.
	Cross Road Mathrushree Layout		1	12.20	2.20	0.15	4.03		
	Air Force Compound Road		1	530.00	5.30	0.15	421.35		
	8th cross Ravindra Nagara		1	50.00	4.80	0.15	36.00		
	Asphalt Road								
	7th Cross Ravindra Nagara		2	256.00	0.50	0.15	38.40		
		Cum					499.78	5354.02	2675811.62
	Basic Rate	4916.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1766.27	Note:- (360*490.63/100)=1766.27						
	Add Cement cost as per Issue rate	1901.23	Note:- (360*264.06/50)=1901.23						
	Sub Total	**5050.96**							
	Area Weightage 6%	303.06							
	Grand Total	**5354.02**							
9	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.**(Page No. 178.tem No.22.7,PW,P & IWTD SR 2018-19)**								
	For CC Road								
	Cross Road Mathrushree Layout		1	12.20	2.20		26.84		
	Air Force Compound Road		1	530.00	5.30		2809.00		
	8th cross Ravindra Nagara		1	50.00	4.80		240.00		
		Sqm					3075.84	72.08	221706.55
	Basic Rate	68.00							
	Area Weightage 6%	4.08							
	Grand Total	72.08							
10	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **(Page No- 158 Item no - 21.2 of KPWD SR 2018-19).**								
	Asphalt Road								
	7th Cross Ravindra Nagara		1	256.00	4.70		1203.20		
		Sqm					1203.20	5.30	6376.96
	Basic Rate	5.00							
	Area Weightage 6%	0.30							
	Grand Total	5.30							
11	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH **(Page No-158 Item no - 21.7 of KPWD SR 2018-19)**								
	Asphalt Road								
	7th Cross Ravindra Nagara		1	256.00	4.70		1203.20		
		Sqm					1203.20	12.72	15304.70
	As per Issue rate	12.00							
	Area Weightage 6%	0.72							
	Grand Total	12.72							
12	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4 % VG-30 Bitumen **(P.No.162 & I.No.21.22.6 PWD 18-19)**								
	Asphalt Road								
	7th Cross Ravindra Nagara		1	256.00	4.70	0.04	48.13		
		Cum					48.13	8618.86	414808.49
	As per Issue rate	8131.00							
	Area Weightage 6%	487.86							
	Grand Total	**8618.86**							
								Total Construtlon cost	**7209658.15**

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Sl. No	...nistratively Sanctioned For Rs:...84.00 (Lakhs)	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	...s In Words...Eighty four Lakhs only						856066.17	GST Charges 12%	865205.72
	.....						214016.68	KRIDL Charges 4.5%	324452.15
	Under...P.1878-18th Works							Sub Total	8399705.53
	...b Code No...13-20-0000-13							Miscellaneous & Rounding Off	294.47
	...egistered as SE No ...02... /Rupees.Eighty Four Lakh(s) Only							Grand Total	8400000.00

14.1.2020

Certificate:-

1) This Work Comes Within BBMP Limits.
2) Certified that personaly inspected the work Spot. ...Dt...14.1.2020...
3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19
4) Estimate is Prepared Making use of essential itemof work(s) as per site conditions in safest way of Execution in most economical way

...Conditions contained in Enclosed Memo
EE(S)/(3).V.02(5.2)

AE / JE TA EE

5) This work is not include in any other program of work.

Assistant Engineer
Ward No.13

Assistant Executive Engineer
Shetyhalli Sub - Division

Executive Engineer
Dasarahalli Zone
18/12/19

ADMINISTRATIVELY SANCTIONED FOR Rs.84.00
(Rupees...Eighty...Four...Lakh...only...)
.....
Under the Head of Account...P-1878 (Bhagyanagara Seeru Nseeru yojane & General)...
.....
Registered as o EE) AS 192/19-20 Subject to conditions contained in Enclosed Memo
No.EE/DD/A.../192/19-20...Dt.18/12/2019

Exe. Eng
18/12/19.

JE/AE. (DASARAHALLI) BBMP

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